

Memorandum

TAB 83

To: CHAIR AND COMMISSIONERS
CALIFORNIA TRANSPORTATION COMMISSION

CTC Meeting: October 26-27, 2011

Reference No.: 2.5e.(1)
Action Item

From: NORMA ORTEGA
Chief Financial Officer

Prepared by: Rachel Falsetti
Division Chief
Transportation Programming



Subject: **ALLOCATION FOR SUPPLEMENTAL FUNDS FOR PREVIOUSLY VOTED PROJECT
RESOLUTION FA-11-06**

RECOMMENDATION:

The California Department of Transportation (Department) recommends that the California Transportation Commission (Commission) allocate an additional \$2,438,000 for one State Highway Operation and Protection Program (SHOPP) project identified below.

ISSUE:

Additional funds are needed for one previously approved project in order to award the construction contract.

RESOLUTION:

Resolved, that \$2,438,000 be allocated from the Budget Act of 2011, Budget Act Items 2660-302-0890 and 2660-302-0042 to provide additional funds to allow the following project to be awarded.

<u>Project</u>	<u>Dist-Co-Rte</u>	<u>Original Allocated Amount</u>	<u>Current Allocation</u>	<u>Allocation Adjustment</u>	<u>Revised Allocation</u>	<u>% Increase Above Current Allocation</u>
1	01-Men-1	\$9,000,000	\$ 9,000,000	\$2,438,000	\$11,438,000	27.1%

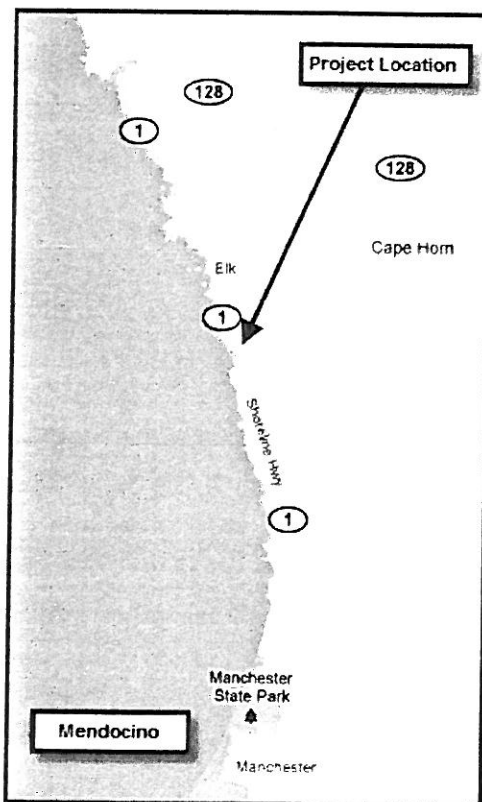
CHAIR AND COMMISSIONERS
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October 26-27, 2011
Page 2 of 4

Project # Allocation Amount Recipient County Dist-Co-Rte Postmile	Location Project Description Reason for Supplemental Funds	PPNO Program Funding Year Item # Fund Type Program Codes Project ID Adv Phase EA	State Federal Current Amount by Fund Type	State Federal Additional Amount by Fund Type	State Federal Revised Amount by Fund Type
2.5e.(1) Supplemental Funds for Previously Voted Projects			Resolution FA-11-06		
1 \$2,438,000 Department of Transportation Mendocino 01-Men-1 33.4/33.9	Near Elk, at Greenwood Creek Bridge #10-123. <u>Outcome/Output:</u> Remove one scour- damaged bridge and replace with a three- span box girder concrete bridge to comply with Bridge Scour Report recommendation. Supplemental funds needed to award construction contract. Total Revised Amount: \$11,438,000	01-0140A SHOPP 2010-11 302-0042 SHA 302-0890 FTF 20.20.201.111 0100000095 4 310104 SHOPP 2011-12 302-0042 SHA 302-0890 FTF 20.20.201.111	\$180,000 \$8,820,000	\$49,000 \$2,389,000	\$180,000 \$8,820,000 \$49,000 \$2,389,000

RECOMMENDATION:

The Department recommends that this request for \$2,438,000 be approved to allow this project to be awarded.



PROJECT DESCRIPTION:

This project is located in Mendocino County near Elk at the Greenwood Creek Bridge #10-123. This project will replace the existing bridge with a three span, 45-foot, 8-inch wide; box girder concrete bridge due to the substructure is scour critical caused by streambed degradation.

FUNDING STATUS:

The project was programmed in the 2010 SHOPP for \$9,000,000 for construction in Fiscal Year (FY) 2010-11 and was voted for \$9,000,000 in June 2011. Bids for this project were opened on August 16, 2011. Three bids were received for this project. The amount needed to award the contract, based on the lowest bid amount, is \$11,438,000. This request for \$2,438,000 in supplemental funds results in an overall increase of 27.1 percent over the original vote amount. This contract will be awarded upon approval of this supplemental funds request.

REASONS FOR COST INCREASE:

The Department performed a bid analysis to evaluate the differences between the Engineer's Estimate and the contract bid items. The contract has 114 bid items. Nine of these bid items have significant cost differences. Seven of these bid items are related to structure work, one bid item for time-related overhead and one bid item for mobilization.

BID ITEM	ENGINEER'S ESTIMATE	LOW BID	INCREASE
Structure Concrete, Bridge	1,617,975	2,516,850	898,875
Time-Related Overhead (TRO)	179,850	550,000	370,150
Structure Excavation (Type D)	81,060	295,290	214,230
Bridge Removal	160,000	360,000	200,000
Mobilization	703,000	900,000	197,000
60" Cast-In-Drilled-Hole Concrete Pile	307,625	457,425	149,800
24" Cast-In-Drilled-Hole Concrete Pile	98,010	227,205	129,195
30" Drilled Hole	86,625	202,125	115,500
Structure Concrete, Bridge Footing	81,400	177,600	96,200
Miscellaneous Adjustments/Contingencies			67,050
TOTAL INCREASE			\$ 2,438,000

With few comparable recent projects in this part of northern California on which to base the estimate, the Department's estimate utilized historical data and special studies of bid items with similar scope and quantity. The estimate also took into account industry trends and project-specific requirements. Although all the available tools were used by the Department to develop the estimate, the cost of several items, primarily structural concrete, were undervalued in the Department's estimate.

Contributing to the cost are the unique conditions at this coastal location and project requirements, including low overhead clearances for drilling and foundation operations, special handling of construction materials, environmental concerns and restrictions, as well as fabrication of a custom column flare specifically for this project.

An additional \$2,438,000 in supplemental funds is needed in order to award this project to the low bidder.

FUNDING OPTIONS:

OPTION A: Approve this request as presented above for \$2,438,000 to allow this project to be awarded.

OPTION B: Deny this request and direct the Department to down scope the project to remain within the allocated amount. The Department considered this option and determined that reducing the scope of work on this project, and executing another project to complete the deleted work later would result in greater costs and more disruption to the traveling public.

RECOMMENDED OPTION:

The Department recommends that this request of \$2,438,000, as presented in Option A above, be approved to award the project to the low bidder.